SERIAL NO.3022

ONKYO® SERVICE MANUAL

Direct Drive Highest Fidelity Turntable

CP-700M

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ONKYO®
AUDIO COMPONENT

SPECIFICAUTIONS

Type	Manual direct drive turntable with arm lifter
Turntable	31 cm aluminum diecast with stroboscope weight: 1.6 kg.
Motor	8 poles 24 slots brushless DC servo motor
Speed	33-1/3, 45 rpm. adjustable range: ±2%
Wow & Flutter	0.04%
Signal to Noise Ratio	60 dB
Tonearm	Static balanced pipe arm with headshell exchangeable, anti-skating and lateral balancer Effective arm length: 220 mm Overhang: 15 mm Tracking error: ±1.5°
Suitable Cartridge Weight	3 to 15 grams
Power supply rating	100-120V/220-240V, 50/60Hz
Power consumption	3 W
Dimension	452W x 174H x 374D mm 17-13/16"Wx6-7/8"Hx14-3/4"D
Weight	10.5 kg. 23.1 lbs.

Specifications are subject to change without notice for improvement.

SERVICE ADJUSTMENT AND PROCEDURE

1. Power voltage selection
   The record player has been set a voltage of 220/240V before shipment.
   To change for 100/120V, turn switch to the right position.
   To change voltage, detach the fixture plate, adjust switch position and rettach the fixture plate.
   The voltage selector switch is located under the turntable.

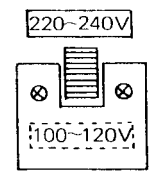


fig. 1

2. Tonearm height
   When adjusting the tonearm height, slacken the height adjustment screws at the back of the arm base.
   Arrange it in such a way that the arm may be traceable horizontally at all times. (The possible range of adjustment is 8 mms from the lowest to the highest position.)
   With the tonearm height adjusted, arrange for the arm rest mount to be level with the arm resting on it.

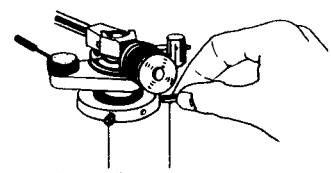


fig. 2

3. The record player does not include the cartridge among its accessories, and it is recommended that a cartridge with weight ranging from 5 to 13 grams is brought into use in the event the attached head shell is utilized. However, needle pressure should be held at a maximum of 3 grams. The head shell weight (inclusive of the finger, screws, nuts and washers) is 7.5 grams. OC – 32 V is a recommended cartridge.

4. The service life of the motor runs 5,000 consecutive hours. There is no need for lubricating oil to be applied to the bearing since it is manufactured of the "oilless" metal.

5. When adjusting the arm lifter height, the 3–mm–thick enamel screw holding the arm and the arm lifter in position should be loosened with a hexagonal wrench.

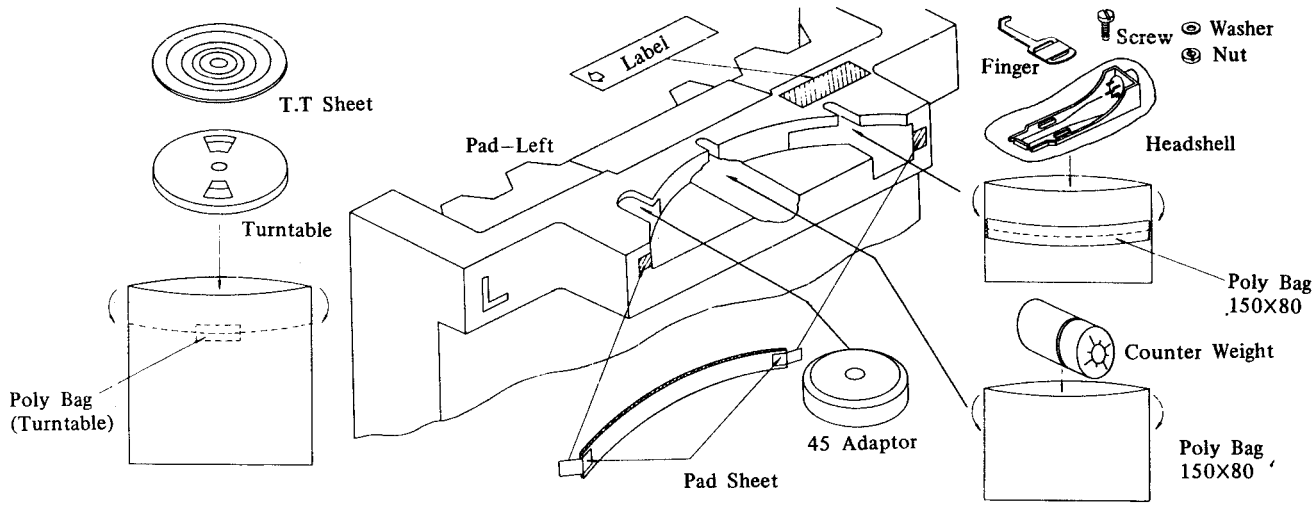
6. Variable range of the speed control VR attached to the cabinet-top is ± 2%. The same for the semi-fixed VR fitted on the motor for speed control is ± 6%. Speed increases as the control VR is turned clockwise while turning the same counterclockwise reduces speed with both.

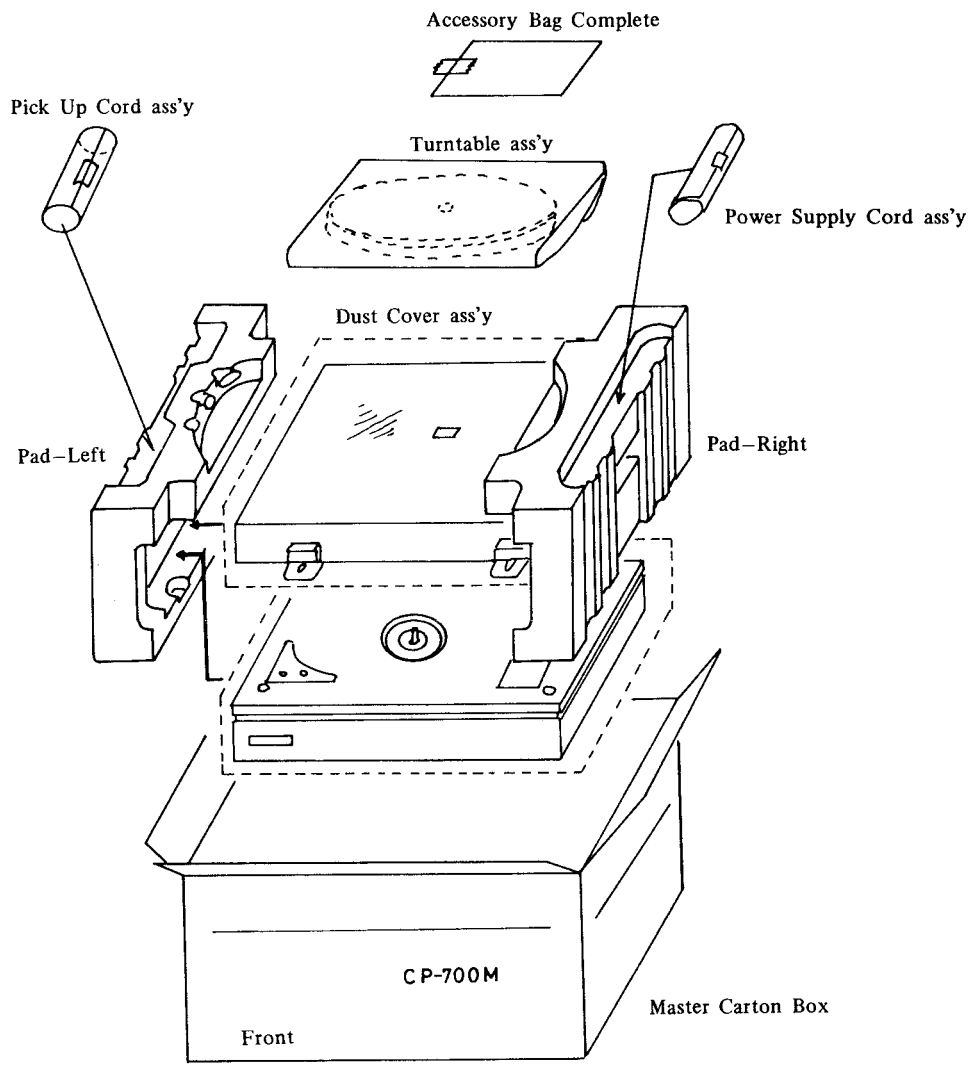
7. The torque applied in tightening the hexagonal nut at the 4 corners in assembling the cabinet stands at 7 – 9 kgs. Proceed with caution since tightening in excess will result in cushion rubber deformation or will possibly affect howling.

8. The torque applied in tightening the angle in fixing the speed control VR in position, on the other hand, stands at 3 – 4 kgs. Proceed with caution as excessive tightening may cause the screw welded on cover to come off.

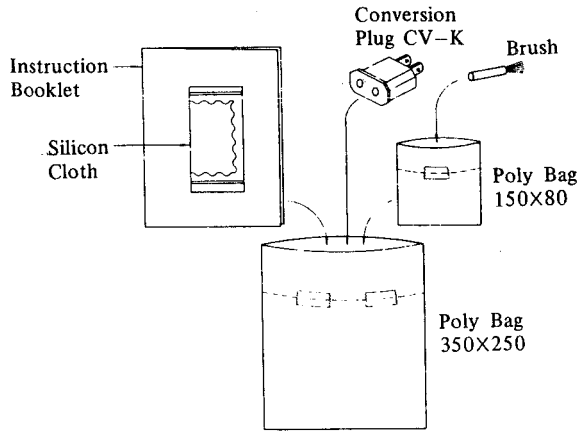
PARTS LIST

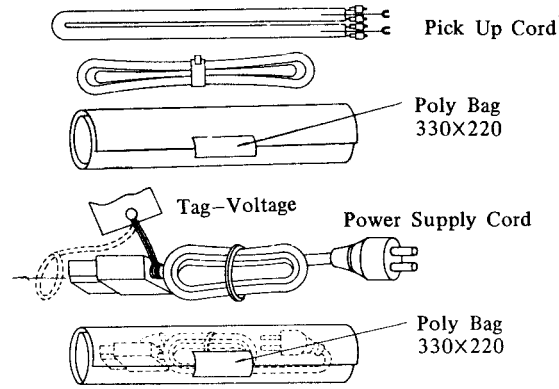
PARTS NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	STOCK NO.	REMARKS
A350	Cabinet ass'y		1	28110059	
A350a	Cabinet–Top		(1)	28110060	
A350a-2	Headshell Stand		(1)	24509024	
A350b	Cabinet–Side		(1)	28110061	
A350b-2	Badge		(1)	28135034	
A350e	Adaptor Rest		(1)	24509020A	
A350K	Chassis		(1)	27100010A	
A350n	Label–Voltage		(1)	282992	
A359	Cover		1	27210041	
A360	Cover–Speed Selector		1	27210042	
A361	Lamp Case		1	24509021	
	Dust Cover ass'y		1		
A380	Dust Cover		(1)	28165028–2	
A381	Cushion Rubber		(2)	28170001A	
A382	Badge		(1)	28135024	
A383	Hinge ass'y		2	28180019	
A383a	Hinge		(2)	28180020	
A383b	Plate		(2)	28180022	
A389	Shield Plate		1	27150041	
A394	Plug–PS	SFŌ–40A3	1	250227	
A395	Socket–PS		1	250226	
A400	Power Supply Cord	AS–CEE	1	253083	
A401	Pin Jack	NTM–2PBS·1SPR–E1	1	25045017	Out Put Terminal
A402	Conversion Plug	CV–K	1	292063	
A404	Insulator		4	280643–2	
A601	Bottom Board		1	27170011	
A801	Knob–Push		3	28320118	
A802	Knob–Speed Selector		2	28320119	
A001	Bracket A		1	27130067	
A002	Bracket B		1	27130068	
A003	Slide Switch	S–J0275	1	250159	Voltage Selector
PL901	Neon Lamp	NE–2HW	1	211002	
Z001	Motor		1	24502018	
Z002	Turntable		1	24502019	
Z003	Tonearm ass'y		1	24501075	
Z003a	Tonearm		(1)	24501086	
Z003b	Counter Weight		(1)	24501087	
Z003c	Lateral Weight		(1)	24501088	
Z003d	Arm Lifter		(1)	24501089	
Z003e	Height Adjustment Screw		(2)	24501090	
Z005	Headshell		(1)	24501085	
Z006	Arm Rest		1	24501077	
S999	Power Switch	NPS–112LN4	1	25035021	
R701, 702	Resistor–Variable	N16R1KB20	2	5146002	Speed Control
T901	Transformer–Power	NPT–592AG	1	250153	
C998	Capacitor–Ceramic	CK45E500V103P	1	335251039	
C997	Capacitor–Electrolytic	CE62W50V1000S–R–L	1	3504076	
Z021	SW–AS	NASW–327	1	16918527	
Z022	PS–AS	NAPS–322a	1	16915522A	
Z023	PS–AS	NAPS–221a	1	16918521A	

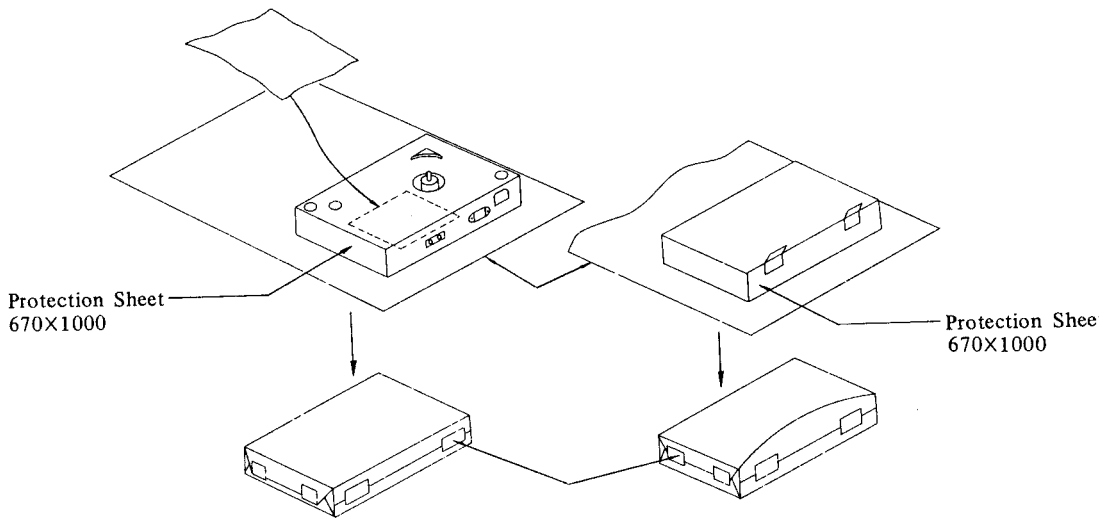

T.T Sheet
Turntable
Poly Bag
(Turntable)
Label
Pad–Left
Pad Sheet
45 Adaptor
Finger
Screw
Washer
Nut
Headshell
Poly Bag
150X80
Counter Weight
Poly Bag
150X80


Accessory Bag Complete
Pick Up Cord ass'y
Turntable ass'y
Power Supply Cord ass'y
Dust Cover ass'y
Pad–Left
Pad–Right
CP-700M
Front
Master Carton Box

PACKING PROCEDURE







PARTS NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	STOCK NO.	REMARKS
A901	Rating Plate		1	29360062	
A904	Instruction Booklet		1	29340124	
A906	Tag–Voltage		1	293268	
A910	Poly Bag		1	290312	(Turntable)
A911	Silicon Cloth		1	292017	
A914	Poly Bag	330X220	2	29100005	Power Supply Cord Pick Up Cord
A915	Poly Bag	150X80	3	29100002	Headshell, Brush Counter Weight
A916	Poly Bag	350X250	1	29100006	Instruction Booklet
A917	45 Adaptor		1	292023	
A918	T.T Sheet		1	27300024	
A920	Pick Up Cord		1	24505014	
A921	Brush		1	292059	
A851	Master Carton Box		1	29050047	
A852	Pad–Right		1	29090106	
A853	Pad–Left		1	29090107	
A854	Protection Sheet	670X1000	2	29095016	
A855	Pad Sheet		1	27300039	
A857	Label		1	29360059	
	((DEUTSCHLAND))				
	Power Supply Cord	AS–VDE or AS–VDE–1	1	253085 or 253088	
	Instruction Booklet		1	29340144	
	Warranty Card		1	29365001	

9. The dust cover, which is shock-proof, is fitted on the bottom board of the cabinet. This can be pulled out readily when removing as it is of vertical plug-in type.

10. Overhang Adjustment
"Overhang" is the distance that the stylus tip should protrude over the center of the turntable shaft when the arm is moved exactly over the shaft. See fig. 3. The proper overhang is 15 mm (approx. 5/8 of an inch).
It can be adjusted by somewhat loosening the cartridge mounting screws and moving the cartridge in the head shell. Be sure, however, not to fasten the cartridge in a slanted position.

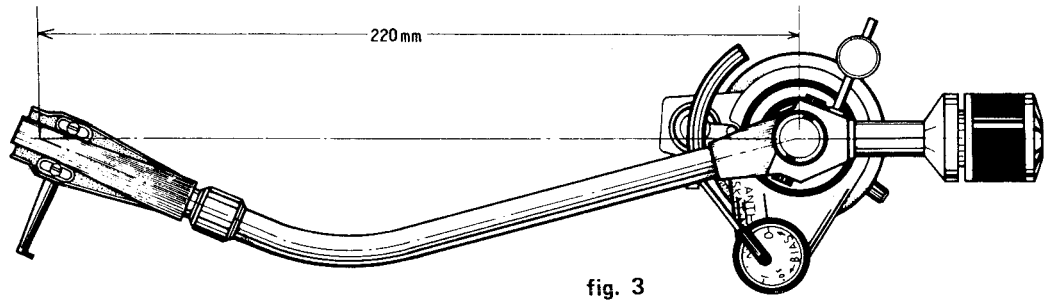
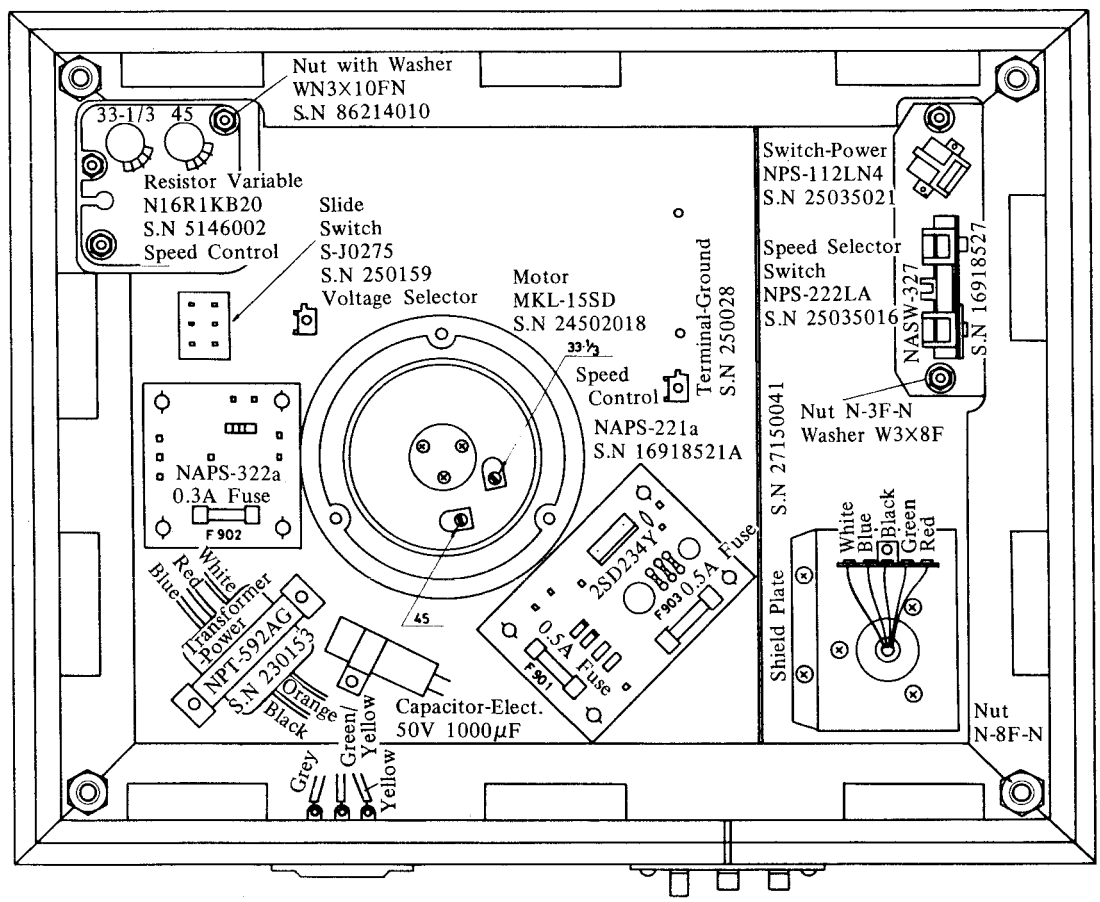
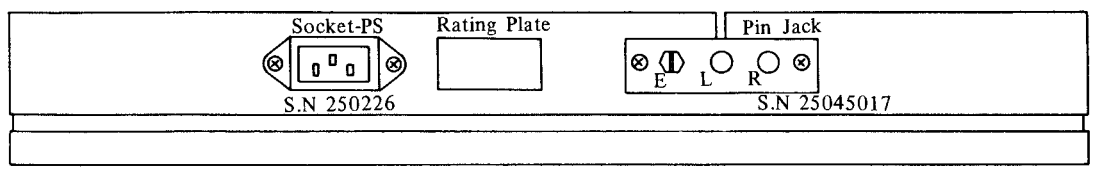


fig. 3

BOTTOM VIEW





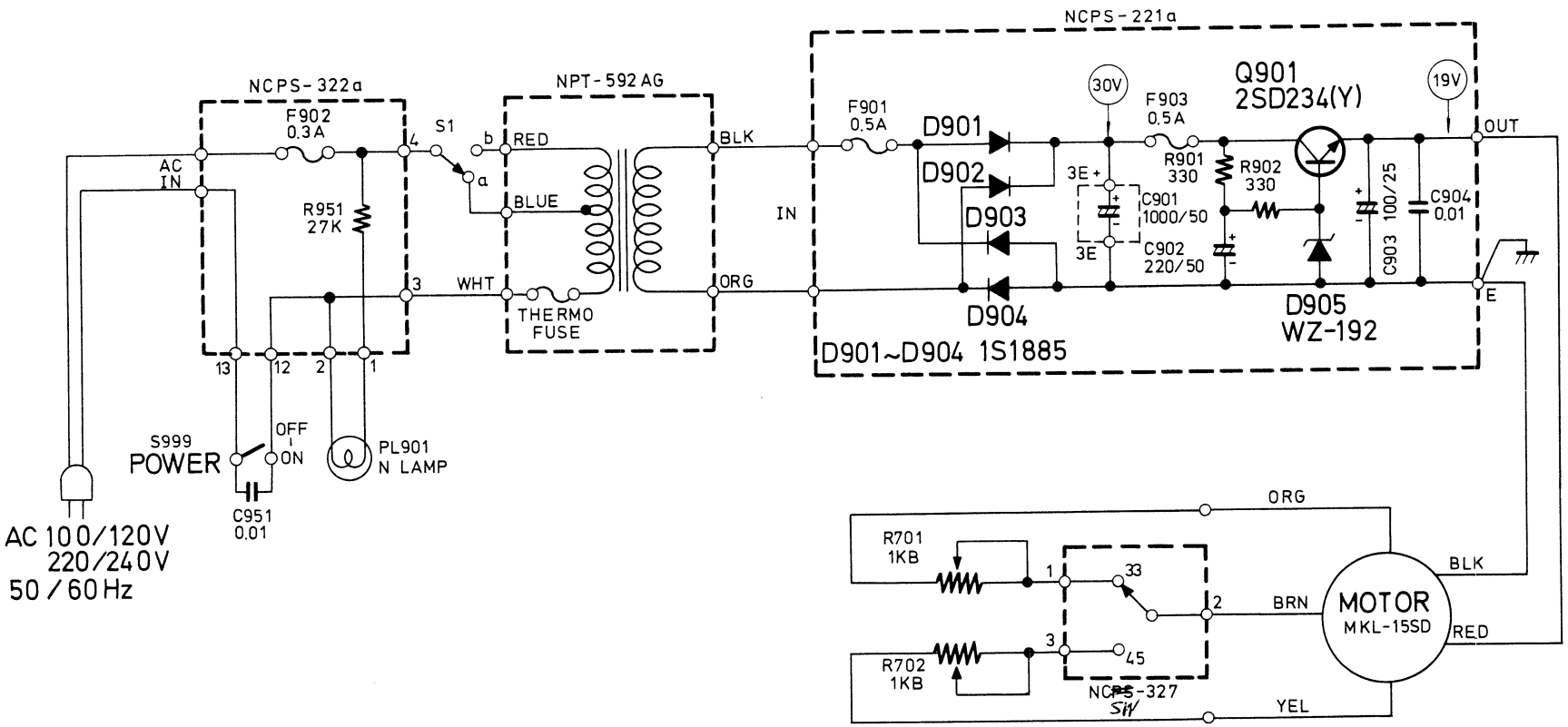
Cabinet Ass'y
S.N 28110059

Cabinet-Slide
S.N 28110061

Cushion
S.N 28140033

Cabinet-Top
S.N 28110060

CIRCUIT DIAGRAM



PARTS NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	STOCK NO.
	((NAPS-221a))			
Q901	Transistor	2SD234(Y)	1	2200020
D901 – D904	Diode-Silicon	SRIK-2 or 1S1885	4	223804 or 223802
D905	Diode-Zener	WZ-192	1	223927
C902	Capacitor-Electrolytic	CE04W50V 220S	1	352782211
C903	Capacitor-Electrolytic	CE04W25V 100S	1	352751011
C904	Capacitor-Ceramic	CK45D50V 103M	1	335121037
R901, R902	Resistor-Carbon Film	R1/4J 330	2	411413314

PARTS NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	STOCK NO.
P951	Holder-Fuse	S-N5051	4	250113
F901, F903	Fuse	0.5A-T	2	252023
A952	Radiator		1	270521
	((NAPS-322a))			
R951	Resistor-Solid	RC1/2GFK33K	1	431523335
P901	Holder-Fuse	S-N5051	2	250113
F902	Fuse	0.3A-T	1	252016
	((NASW-327))			
S701	Switch-Push	NPS-222LA	1	25035016